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WHAT IS CLAIMED IS:

1. A pharmaceutical composition for ophthalmologic uses comprising a complementary peptide having a sequence complementary to proline-glycine-proline (PGP).

- 2. The pharmaceutical composition of claim 1, wherein said complementary sequences are designed based on the coding triplet for proline and glycine and on the hydropathic value of proline and glycine.
- 3. The pharmaceutical composition of claim 1, wherein said complementary peptide is selected from the group consisting of RTR, RTRGG, RTR dimer, RTR tetramer, RTR octamer, N-acetyl-RTR 15 multimer, short chain and long chain fatty acid RTR multimer, RTR using diaminopropionic acid for the core subunit, multimer RTR multimer using diaminobutyric acid for the core subunit, **RTR** containing a spacer having the formula NH₂[CH₂]_n-COOH multimer [n=2[3-aminopropionic acid]....7[8-aminocaprylic acid]], said spacer 20

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replacing the diglycine spacer, cysteine RTR multimer having a bicyclic structure, and XTR multimer with N-terminal modifications and core subunit modifications, wherein said complementary peptides have dextrorotatory amino acids substituting for the natural levorotatory.

4. method Α of inhibiting polymorphonuclear leukocyte polarization, chemotaxis and infiltration into tissue by a neutrophil activated chemoattractant in an individual, comprising the step of:

to said individual so as to inhibit polymorphonuclear leukocyte infiltration into tissue.

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5. The method of claim 4, wherein said neutrophil chemoattractant is selected from the group consisting of N-acetyl-PGP, N-acetyl-PGX, N-methyl-PGX, N-methyl-PGP and small peptide chemoattractants containing proline and glycine.

- 6. The method of claim 4, wherein said pharmaceutical composition is administered at a concentration range of from about 1 μM to about 100 mM, depending on the peptide.
- 7. A method of treating an eye disease in an individual, comprising the step of:

administering the pharmaceutical composition of claim 1 to said individual.

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8. The method of claim 7, wherein said pharmaceutical composition is administered at a concentration range of from about 1 μM to about 100 mM, depending on the peptide.

9. The method of claim 7, wherein said eye disease is selected from the group consisting of alkali-injured eye, chemically injured eyes and inflammatory disease of the eye.